

Case Study

The challenge

A Diagnostic Device Company approached LSO's East Coast location to develop reagent blisters that would accommodate single test quantities of reagent to be mounted onboard Point-of-Care Test Cards.

The company needed support to identify appropriate materials, methods and procedures to provide reagent filled foil blisters that could be shipped safely in bulk, yet dispense the reagent in a controlled way when coupled to the test card and ultimately activated during the performed diagnostic test.

Our solution

LSO identified and procured all equipment needed, fabricated all tooling, and developed & validated all processes associated with the filling, forming and sealing of these reagent blisters.

The results

The company became first to market for a point-of-care diagnostic product utilizing reagents on a disposable test cartridge.



A pioneer in point-of-care reagent Technology

The continued growth of point-of-care diagnostic tests offers improved patient outcomes as well as lower overall costs. A key to the success of these lab-on-chip applications is enabling reagents to be stored and dispensed on microfluidic test cards.

LSO's East Coast location (formerly J-Pac Medical) has leveraged its expertise in polymer manipulation to become the leading manufacturer of reagent blister reservoirs used in lab-on-chip tests. Our technology allows reagents of multiple chemistries and volumes to be safely and effectively stored on the test card until it is required by the test.

One-stop solution

Our unique approach offers a one-stop solution for both blister development and manufacturing. We have a deep technical understanding of blister technology for microfluidic applications and can design blisters for custom activation mechanisms. We produce blisters to support the product life cycle from samples and pilot runs, to initial launch and high volume production.

LSO offers both sample packs and development kits to help our customers that are in the early stage of development and seek to get acquainted with our technology. Sample packs include a small number of burst and frangible seal blisters while development kits come in larger volumes, specific shapes, and can include custom reagents. Additionally, LSO offers "No Head Space" technology to enable low-oxygen reagent storage.



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